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#### MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES

Monthly Activities Report of the Air Quality Bureau

May, 1978

STATE DOCUMENTS COLLECTION

1. Highlights:

JUL 6 1978

New engineer for Billings office began work on May 1.

Board of Health hearing held on open burning rule change.

980 E Lyndale Ave. Hetens, Montana 59601

- 2. Ambient Air Quality Network:
  - a. Standards Exceeded
  - SO<sub>2</sub> violations (Butte-Anaconda) Hiway Jct. Mill Creek Lincoln School

Excur. over 0.25 ppm	0	0	0
High 24-hour average	0	0	0
High hourly average	0	0	0

SO, violations from company stations near Anaconda smelter

State 1-hour 107 State 24-hour 18 Federal 24-hour 7 Federal 3-hour 10

Hi-vol standards exceeded City	Station	Date	150 ug/m3 Fe <u>d. Sec. S</u> t	200 ug/m <sup>°</sup> d. St. Std.
Butte	Gilmans	5/14	191	
Col. Fal	ls Anders	5/2	187	
Col. Fal	ls Anders	5/8	208	208
Col. Fal	ls Anders	5/20	182	
Col. Fal	ls Anders	5/26	170	
E. Helen	na Hastie	5/14	160	
Kalispel	.1 Sherman	5/26	411	411
Libby	Brown	5/3	205	205
Three Fo	rks Kober	5/14	184	~

- Air Stagnation Advisories None in May
- c. Laboratory Status

Total determinations for month 1378
Total samples for month 258

d. Other

 $\ensuremath{\mathsf{EPA}},$  Region VIII, audited ozone monitors in Missoula and Butte. Results were acceptable.

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# 3. Permits and Tax Credits:

a. Construction Permits - Applied For

R. J. Studer and Sons, Rosebud Co., drier, mixer, scrubber
R. J. Studer and Sons, Rosebud Co., jaw crusher, cones, screen plants, roll plant
Meyer Construction, Chouteau Co., pioneer and crushing spread
Meyer Construction, Sweet Grass Co., pioneer and crushing spread
Meyer Construction, Broadwater Co., pioneer and crushing spread
Highway bepartment, Flathead Co., portable hot mix asphalt plant
Livingston Memorial Hospital, Livingston, incinerator
Westmoreland Resources, Big Horn Co., coal-fired boilers
Westmoreland Resources, Big Horn Co., coal-fired boilers
Westmoreland Resources, Big Horn Co., coal-fired boilers
Rumin Activator Feeds, Three Forks, manure dehydrating plant
Hilde Construction Co., Rosebud Co., portable gravel crushing and hot mix
asphalt plant

Zook Brothers Construction, Cascade, Teton, Lewis and Clark Counties, portable gravel crushing plant
Meyer Construction, Hill Co., portable asphalt hot mix plant

R-Lite Concrete Products, Inc., Granite Co., portable gravel crushing plant Great Western Sugar, Billings, fly ash collector

Construction Permits - Approved

Long Construction, Lake Co., portable hot mix asphalt plant Halliburton Services, Malta, storage tanks, elevator and conveyors for sand handling plant

Baltrusch Construction, Gallatin Co., portable asphalt hot mix plant Baltrusch Construction, Gallatin Co., portable gravel crushing plant Baltrusch Construction, Lake Co. portable hot mix asphalt plant Baltrusch Construction, Lake Co., portable gravel crushing plant Highway Department, Sweet Grass, Gallatin, Madison and Park Counties, portable hot mix asphalt plant

Exxon Refinery, East of Billings, recovery vacuum pipestill gases
Zook Brothers, Lewis & Clark Co., portable gravel crushing plant
Highway Department, Big Horn Co., portable asphalt plant
R. J. Studer and Sons, Rosebud Co., drier, mixer, scrubber
R. J. Studer and Sons, Rosebud Co., jaw crusher, cones, screen plants, roll plant
Meyer Construction, Chouteau Co., pioneer and crushing spread

Meyer Construction, Sweet Grass Co., pioneer and crushing spread Meyer Construction, Broadwater Co., pioneer and crushing spread Highway Department, Flathead Co., portable hot mix asphalt plant Livingston Memorial Hospital, Livingston, incinerator

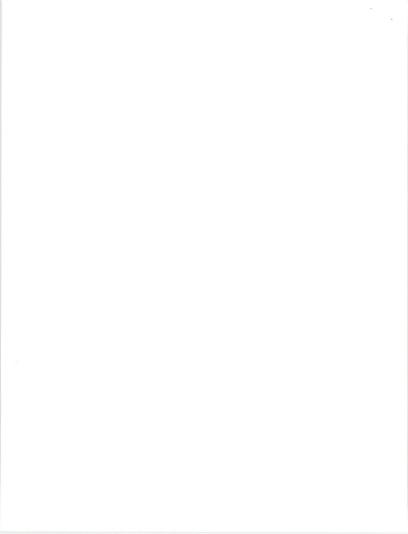
Peter Kiewit Sons, Flathead Co., portable hot mix asphalt plant

# Tax Credits

Montana Power and Puget Power have applied for additional tax credits on Colstrip Units 1 and 2.

Exxon has submitted 23 applications.

W. R. Grace, Libby, baghouse on scavenger dust system, cost is \$81,000



### 4. Variance Status:

#### a. Current

ASARCO, Inc. ha; applied for a variance from Section of Rule S1470 which applies to lead smelters. Presently it is anticipated that the request will be heard on July 14, 1978.

SO, variance for The Anaconda Company was renewed in December, 1977. It expires June 30, 1978.

The variance from the visible emissions and process weight rules for The Anaconda Company foundry expires on June 30, 1978.

Anaconda's application for variance from the visibility rule for smelter has not been scheduled.

Anaconda Aluminum, Columbia Falls, fluoride and particulate, expires June 30, 1978.

b. New - None in May

#### 5. Enforcement Actions:

#### a. Citations

Park Lumber, Livingston, 780501-BR-3, tepee burner in violation of rule 16-2.14(1)-S14030 (Wood Waste Burners)

Burkland Studs, Livingston, 780501-BR-2, tepee burner in violation of rule 16-2.14(1)-S14030 (Wood Waste Burner)

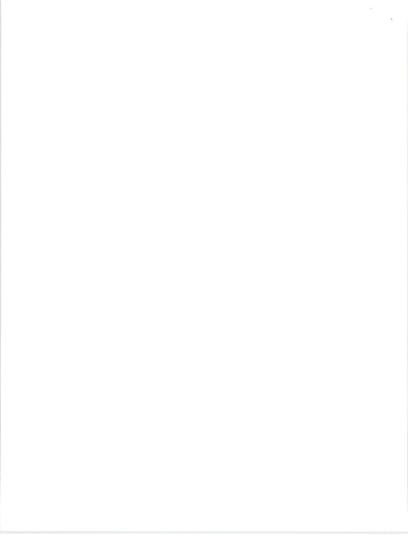
Brand S Lumber, Livingston, 780501-BR-1, tepee burner in violation of rule 16-2.14(1)-S14030 (Wood Waste Burner)

Brand S Lumber, Lewistown, 780524-FG-1, tepee burner in violation of rules 16-2.14(1)-S1400 (Permits) and 16-2.14(1)-S14030 (Wood Waste Burner)

Champion International Corporation, Missoula, 780526-JB-1, smelt tank in violation of rule 16-2.14(1)-S1400 (Permits)

Willow Creek Lumber, Livingston, 780526-FG-1, tepee burner in violation of rule 16-2.14(1)-S14030 (Wood Waste Burner)

- b. Notice of Violation None
- c. Order for Corrective Action None
- d. Court Actions None



### 6. Tepee Burner and Open Burning:

Терее	burner	status:	No. at start	41
*			New starts	0
			Shutdowns	0
			No. at end	41

#### Burning Permits

Kalispell Office	289	Sanders County	129
Cascade County	21	Yellowstone County	53
Lake County	104	Rest of State	756
Missoula County	58	Total	1430

### 7. Source Tests Performed:

a. Agency Source Tests - None

### b. Non-agency Tests

Hoerner-Waldorf, Missoula, seventeen particulate tests on recovery boilers, lime kilns, smelt tanks, hogged fuel boiler.

NSPS tests of batch plant owned by Portable Pavers was witnessed May 25.

# 8. Field Investigations:

Brand S Lumber, Lewistown, violation of tepee burner and construction permit rules, citation issued

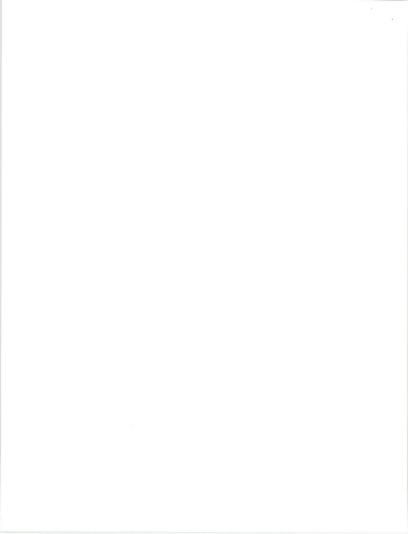
Willow Creek Lumber, Livingston, excess opacity of burner plume, citation Spring Creek Forest Products, Judith Gap, investigation, given to mid-June to get burner control systems operating

Grain elevator, Miles City, inspection, not operating MDU's peaking plant, Miles City, inspection, not operating Gasoline tank, Cenex's Yale Tank Farm, Billings, inspection R. J. Studer Co., Reedpoint, hot mix asphalt plant, inspection Brand S Lumber, Livingston, fire at base of tepee burner, extinguished Brand S Lumber, Livingston, tepee burner, no pyrometer, citation issued Burkland Studs, Livingston, tepee burner, visible emissions, citation Park Lumber, Livingston, tepee burner, inoperative pyrometer, citation Gilman's Excavating, Butte, asphalt plant, inspection RiteWay Asphalt, Butte, asphalt plant, inspection Montana Pole Commany, Butte, inspection

Silver Bow County, Butte, crusher and asphalt plant, inspection Champion International, Silver City, tepee burner, inspection Big Sky Asphalt, Helena, asphalt plant and crusher, inspection Helena Sand and Gravel, Helena, asphalt plant and crusher, inspection

Kaiser Cement, Montana City, inspection Anaconda crusher and concentrator, Butte, inspection

Plum Creek Fiberboard Plant, Columbia Falls, conference about cyclone State Highway Department, Kalispell, batchplant, inspection Flathead County Landfill, Kalispell, inspection of woodwaste area



# 8. Field Investigations, cont.

Proposed mill site, Fortine, inspection of proposed development Pack and Co., Kalispell, inventory update Plum Creek MDF, plywood, sawmill, Columbia Falls, inventory update Superior Building, Columbia Falls, inventory update Kal-Mont Lumber, Kalispell, inventory update American Asphalt, Kalispell, inventory update Flathead County, Kalispell, batch plant, inventory update City of Kalispell, batch plant, inventory update Klingler Lurber, Kalispell, inventory update Louisiana-Pacific, Columbia Falls, inventory update Stoltze Land & Lumber, Columbia Falls, inventory update Montana Lumber & Plywood, Kalispell, inventory update Kalispell Pole & Timber, Kalispell, inventory update Oil field, North of Shelby, inspection Stauffer Chemical, Butte, discussing fluoride problem and contingency plan Chicken manure dryer, Three Forks, operating without permit, inspection

### 9. Complaints:

Oil wells, Sidney, H<sub>2</sub>S hazard, referred to Billings regional office RiteWay Asphalt, Butte, smoke and odor, under Order to Take Corrective Action Baker Landfill, Baker, open burning, referred to city engineer Individual, East Kalispell, weed spraying by county

## 10. Data Processing Services

- a. Ambient Data Summary See attached for April
- b. Emission Inventory Status

Significant number of inventory updates were received as part of SIP revision. A short course was given to staff on EIS/P&R system.

c. Prevention of Significant Deterioration

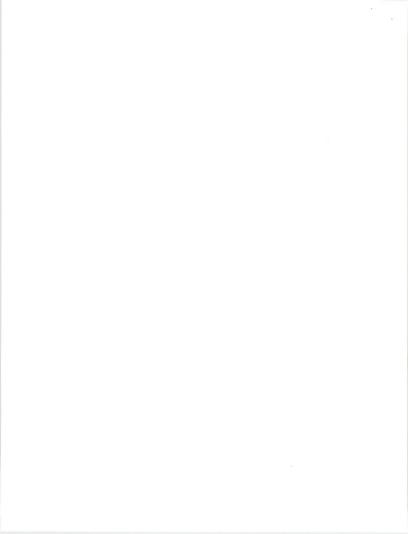
Reviewed new Federal Registers on PSD program and answered several requests for information.

d. Modeling

Discussed Anaconda Company situation with staff and Legal Division, since current variance expires soon.

# 11. Environmental Impact Statements:

- a. Agency Impact Determinations: None in May
- b. Other Agency EIS's Reviewed: None in May



Monthly Keport May, 1978 Page 6

## 12. Status of Studies, Contracts, and Reports:

Poplar River Study continues to operate with no problems
Flathead Study sites established and partial operation expected by mid-June
MAPS Meteorological study is partially operational
Columbia Falls Meteorological Study final data collection completed
Quarterly report of air quality data sent to EPA
ASARCO, East Helena Study bids submitted for study

ASARCO-Troy Project sampling continuing, completion approximately 90% MAPS Emission Inventory Update and Improvement - MRI spent a week in Billings sampling streets for emission factor development

MAPS Historical Emission Inventory - Anaconda Company denied HRA access to historical files

Rockwell International - contract proposal to evaluate Anaconda's in-stack instruments will be updated

EPA Studies of Anaconda's baghouse efficiency and helicopter sampling program should be released soon.

### 13. Schools and Training:

Field trip to Shelby area oil field with representatives of Oil and Gas Commission and industry people

Smoke generator operator's school, Athens, Georgia

# 14. Public Hearings and Meetings:

a. Public Hearings Held

Board of Health and Environmental Sciences, Helena

Meetings Attended

Flathead River Basin Study meeting, Kalispell Lewis and Clark County Health Department, Helena, establishing county air pollution control agency

Exxon personnel, Helena, hydrocarbon control

Air Force, Corps of Engineers, Malmstrom AFB, Great Falls, regarding PSD, EIS, NSPS, monitoring and permits

EPA, Helena, mid-year evaluation

DNR, representative from Budget office, Helena, budget amendment for smoke management

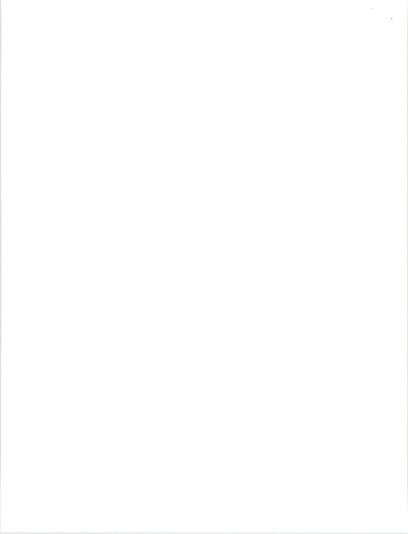
Information Systems Division, data processing system Highway Department attorney, Helena, Reserve Street Bridge Peter Kiewit Sons, Helena, asphalt plant permit

Bureau Chiefs, Legal, Helena, legislation Missoula County Health Department, CO monitoring sites,

Zook Brothers Construction, Helena, asphalt plant testing Lear Siegler representatives, Helena, continuous monitoring requirements

c. Intra-Staff Meetings

Staff meetings MAPS meetings MAAQS meetings Meetings on SIP revisions Meetings on budget for lab and FY 79



Monthly Report May, 1978 Page 7

# 15. Public Information Requests

Rules 8 Clean Air Act 7 General Information 10

# 16. None

# 17. Other

One day was spent in the field orienting the new engineer for the Billings Regional Office  $\,$ 



#### MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES

# MONTHLY SUMMARY OF AIR SUALITY DATA

April 1978

page 1 of 2

	AREA	HÍG	READING		ARITHMET	IC AVER.	
AQCR	Site Location	Current Month	Year-to	Running Year	Year-to- Date	No. of Nons. of	Comments
	Fluoride Papers	Mg/sq c	n/30 day				
144	Dehlbons Mt Sox Finthead Co	1.180	1.200	1.610	1.122	4	
	Anaconda South Flathead Co.	12.460	12.760	27.480	12.010	4	
	Glacier Park #1 Glac.Nat.Park	0.490	0.640	0.640	0.430	4	
	Glacier Park #2 Glac.Nat.Park	0.380	0.550	0.580	0.320	4	
	Glacier Park #9 Glac.Nat.Park	0.510	0.720	0.720	0.512	4	
	Fluoride Plates	Mg/sq c	n/30 days				
144	Anaconda South Flathead Co.	5.350		37.850	16.202	4	
	Trailer-NAAC Flathead Co.	1.500	1.610	2.000	1.420	4	
	Glacier Park #1 Glac.Nat.Park	0.840	0.840	0.840	0.533	3	
	Glacier Park #2 Glac.Nat.Park	0,360	0.690	0.690	0.370	4	
	Glacier Part #9 Glac.Nat.Park	0.440	0.670	0.670	0.442	4	

Pollutant: Miscellaneous Indicators Units:

PollutantMiscellaneous Indicators Units

	AREA	HIGH	READING		ARITHME	TIC AVER.	
QCR	Site Location	Current Month	Year-to -Date	Running Year	Year-to -Date	No. of Nons. of Data	Comments
143	Sulfur Dioxide Scobey Onniels Co. Fort Peck McCone Co. Lame Deer	0.0	0.0	0.0	0.0	4	
143	Rosebud Co. Nitrogen Dioxide Scobey Daniels Co Fort Pack McCone Co. Lame Oeer Rosebud Co.	0.0	0.0	0.0	0.0	4	

1	AREA	HIGH R			ARITHMET	IC AVER.	
AQCR	Site Location	Month		Running Year		Nons. of	Comments
141	Oustfall - tons/ Mountain States- Great Falls Fire Sta #1 Great Falls Fairgrounds Great Falls			**			
140	Sulfation Rate - 3/8 mi.NE Coop 8111ings E. of Laurel 8111ings Hi-8all Trucking 8111ings Stock Car Track Great Falls	0.510		1.	1.837	3 4	
142	Phillips Ref N1 Great Falls Millips Ref E Great Falls Micromave East Helena 212 E. Pacific East Helena 212 E. Pacific East Helena 525 Prickly Pear East Helena East Helena	0.120 0.180 0.300	0.400 n.400 n.590	**	0.310 0.267 0.360	4 3 4	
	Broudy Ranch E.H.	0.060	0.460		0.230	4	

	AREA	HIGH :	READING		ARITHME	FIC AVER.	
AQCH	Site Location	Current Month	Current Year- Runn. Month to-Date Year			No. of Mons. of Data	Comments
140	Morton-Oecker Sig Horn Co.	88	209	209	67.5	4	
	Marren Ranch 8ig Horn Co.	68	68	108	20.1	4	
	Lockwood School 8illings	122	135	166	58.8	4	
	KGHL 8illings	60	87	163	37.9	4	
	City Hall 8111ings	103	175	175	76.9	4	
	Grand Ave. Sch. Billings	110	171	171	51.7	4	
	Laurel Jr. High Laurel	53	76	150	42,8	4	
141	Hospital Roof Great Falls	59	121	225	48.1	4	
	Fire Sta.#1 Great Falls loth Ave. So.	85	123	1\$1	71.5	4	
142	Great Falls	25	94	161	30.6	4	
	Anaconda McKinley Res	84	267	267	59.8		
	Granite Co.	111	195	233	90.8	1	
	Greeley School Butte					1	
	Gilman Constr. Butte	73	139	297	62.7	4	

<sup>\*\* -</sup> Oata unavailable

<sup>\* -</sup> Sito no longer submitting data



#### MONTANA DEPARTMENT OF HEALTH AND ENVIRONMENTAL SCIENCES

# MONTHLY SUMMARY OF AIR QUALITY DATA

April 1978

Page 2 of 2

	ARSA	HIGH READING		ARITHMETIC AVER.			AREA		HIGH READING			TIC AVER	1 .	
AQCR	Site Location	Current Month	Yuar-to	Running Year	Year~to Date	No. of Mons. of Path	Comments	R Site Location	Current Month	Year-to -Date	Running Year	Year-to	No. of Mons. of Data	Comments
142	Atkins Res. Walkerville	25	60	107	28.2	4	14	Col .Falls	328	426	467	138.8	4	2 exc Fed Sec 1 exc Fed Pri
	Richer Res. Silver Sow Co.	22	53	53	20.9	4		Courthouse Ro		390 457	390 457	110.2	4	1 exc Fed Sec 1 exc Mt. Pri
	Tierney Res. Silver Sow Co. Microwave	29 25	68	103	26.1	4		Missoula Lion's Park	172	676	676	146.1	4	1 exc Fed Sec
	Jefferson Co. 212 E. Pacific	76	163	192	77.0	1		Missoula J8 Field	79	154	180	54.6	4	
	Lewis & Clk.Co Kober Res.	116	226	309	62.6	4	.11	Missoula Hoerner Wald. Missoula Co		144	144	34.5	4	
	Three Forks Cogswell 81dg#1	50	234	234	64.5	4		Hoerner Wald.	2 38	135	135	35.2	4	
143	Helena Glendive Dawson Co.					ļ		Hoerner Wald. Missoula Co	3 29	86	86	25.1	4	
	Lane Oeer Rosebud Co.			-**		<del>  </del>		Kalispell Flathead Co		272	272	90.2	4	
	Fort Peck McCone Co.	37 '	37	88	9.2	4		Troy-Srown Lincoln Co. Troy-Sampson	166	247	247 171	85.1	4	1 exc Fed Sec
	Broadus Powder Riv.Co.	51	51	275	15.8	4		Lincoln Co. Libby-Srown	170	394	394	141.1	1	1 exc Fed Sec
	BN Site Colstrip Border Site Scobey	25	25	84	10.8	4		Lincoln Co.	1.0			1		

Polls	stant Miscellaneou	s Contir	uous Dat	a !	Units pp	n .		Poll	utant: Miscelane	ous Conti	nuous Da	ta	Units:	ppm	
	AREA	HIGH R			ARITHMET	IC AVER.			AREA	HIGH	READING		ARITHME	TIC AVER	
AQCR	Site Location	Current Month	Year-	Running		No. of Mons. of Data	Comments	AQCR	Site Location	Cut rent Month	Year- to-Date	Running Year	Year- to-Date	No. of Mons. of Data	Conrents
1	Carbon Monoxide 27th & Montana 811lings 10th Ave. South Great Falls			**					Ozone 27th & Montana 8illings Hebgen Park Sutte	0.04	0.12	0.12	0.018	4	
1	Alpine West Sutte Malfunction Jct.	2.00	12.50		1.070	4		144	Lion's Park Missoula						
	Missoula Lion's Park Missoula							140	Sulfur Dioxide 27th & Montana 8illings Laurel Farm	0.09	0.17	0.17	0.002	4	
1	Hydrocarbons 27th & Montana 8illings	7.50	11.40	26.40	4.006	4		142	Billings East Stack E. Helena	0.10	0.48	0.66	0.008	4	
144	Lion's Park Missoula	2.38	5.00	7.62	2.047	4			Microwave E. Helena Broudy Ranch	0.20	0.32	0.88	0.010	4	
1	Nitrogen Dioxide 27th & Montana 8illings Hebgen Park	0.03	0.03	0.03	0.006	,			E. Helena C-Hill Anaconda Hiway Jct.	1.34	2.00	2.00	0.075	4	2 exc Nat.3hr.St
	Butte Lion's Park	0.05	0.10	0.10	0.020	4			Anaconda Post Office Anaconda			2.00		ļ	2 exe Nut.24-hr.
									Nill Creek Anadonda Lincoln School Anaconda	1.00	1.08	1.68	0.042	1	9 exc Nat 3-hr 7 exc Nat 24-hr. 3 exc Nat 3-hr. 3 exc Nat 24-hr.

<sup>\*\* -</sup> Oats unavailable at time of report

<sup>\* -</sup> Site no longer submitting data \*\*\*\* - Analyzer down - no data

